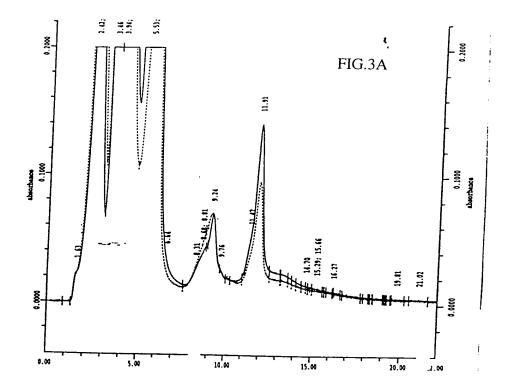
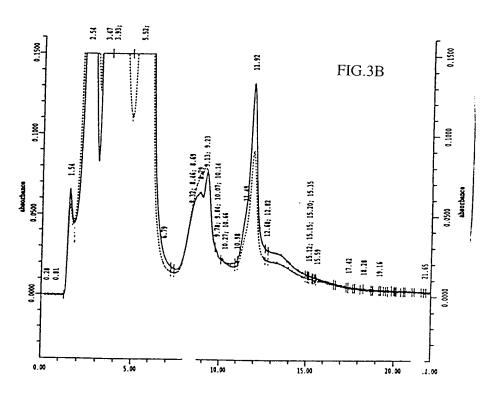
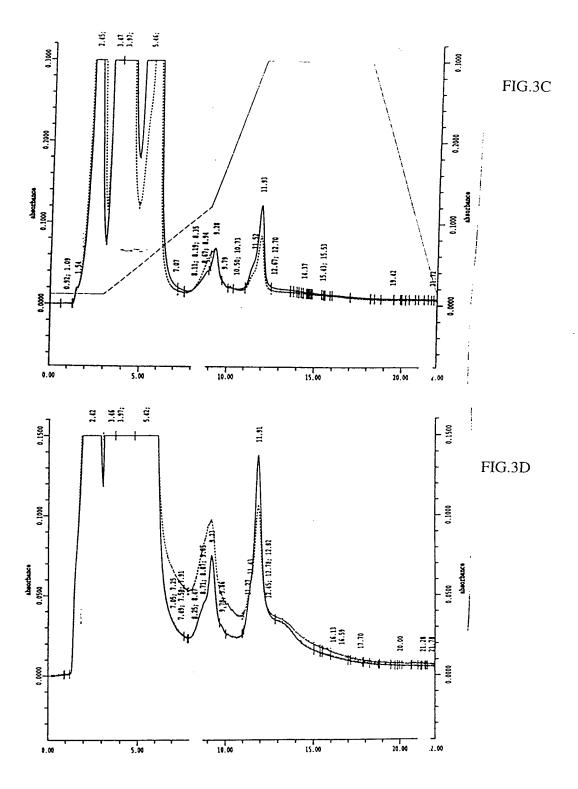


FIG. 2







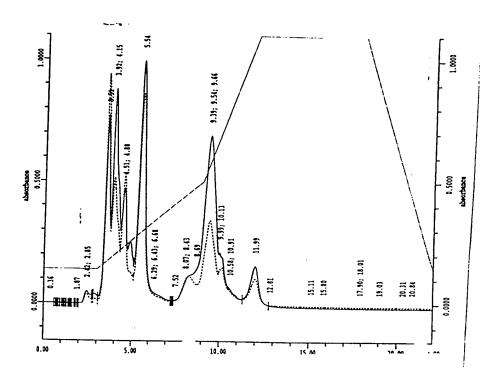
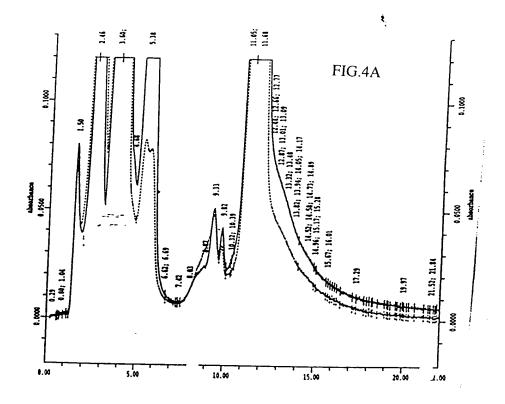
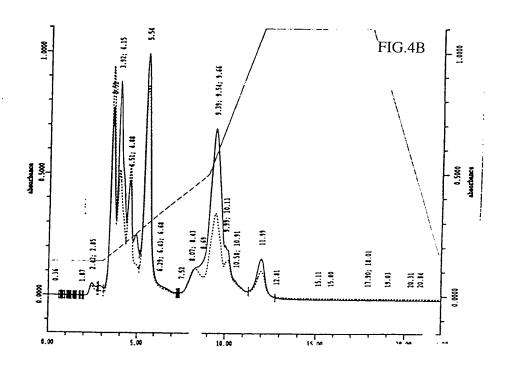


FIG.3E





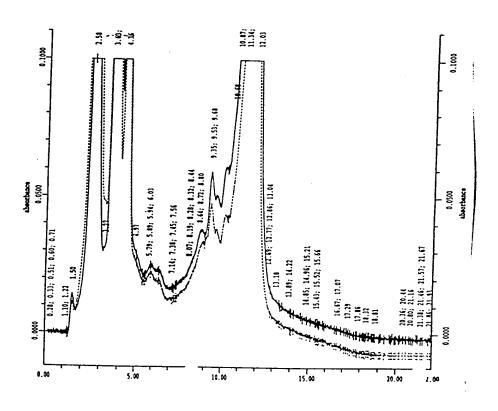


FIG.5

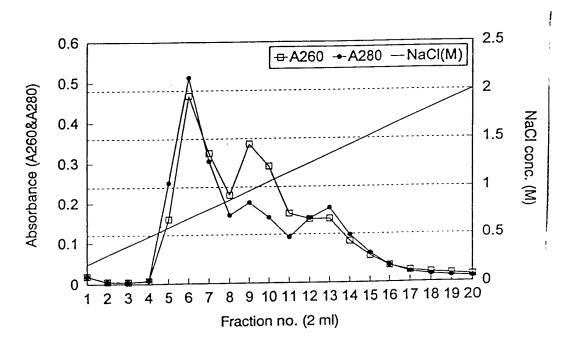


FIG.6

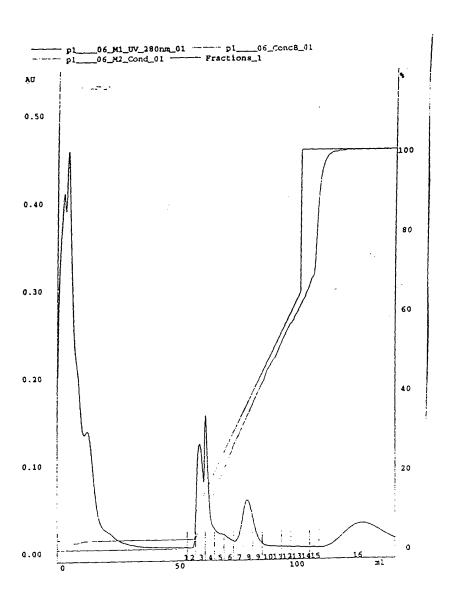
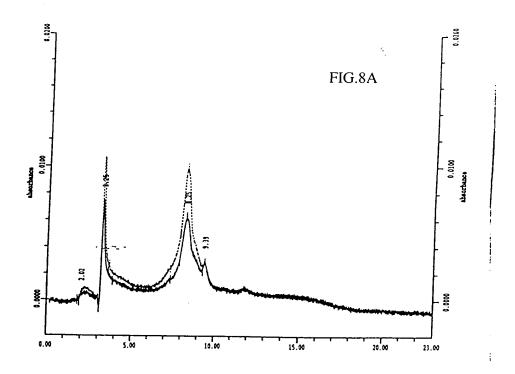
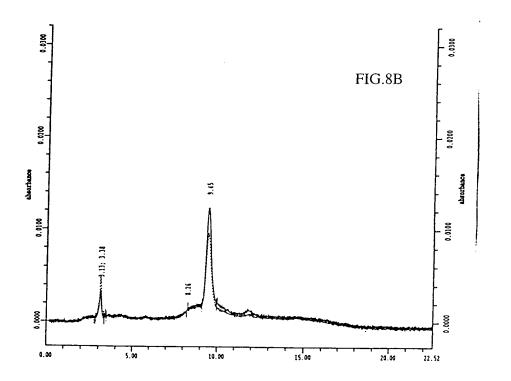
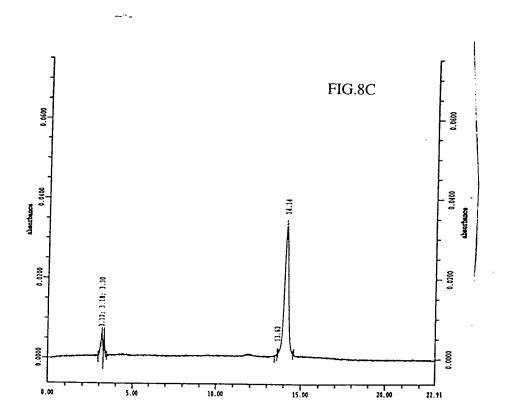
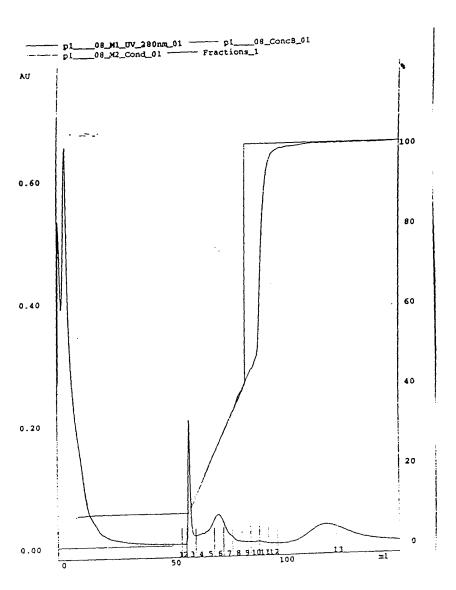


FIG.7



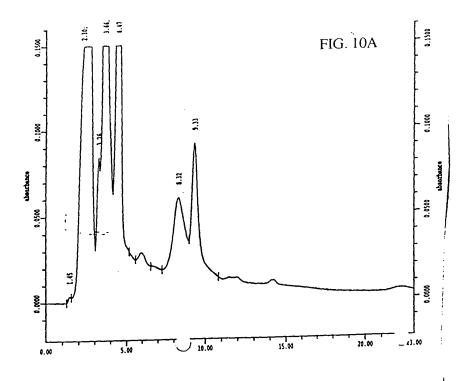


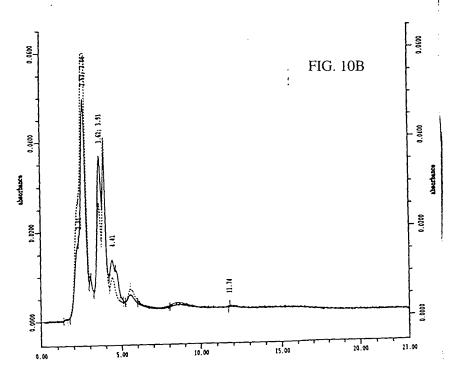


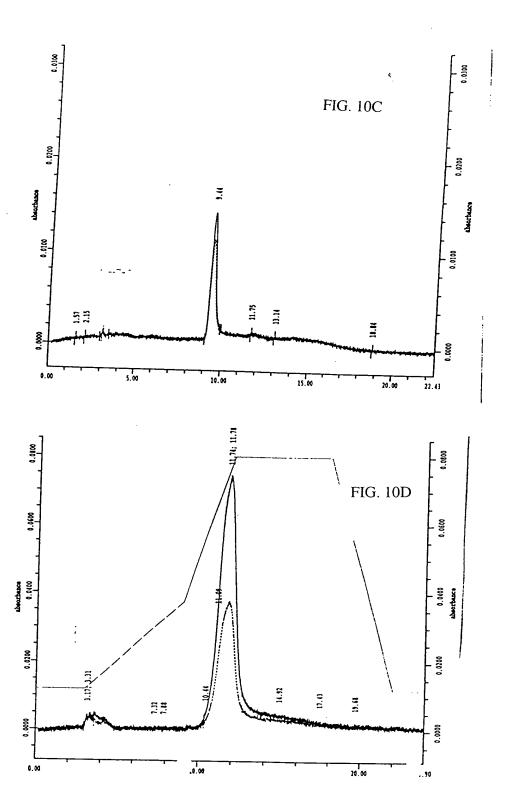


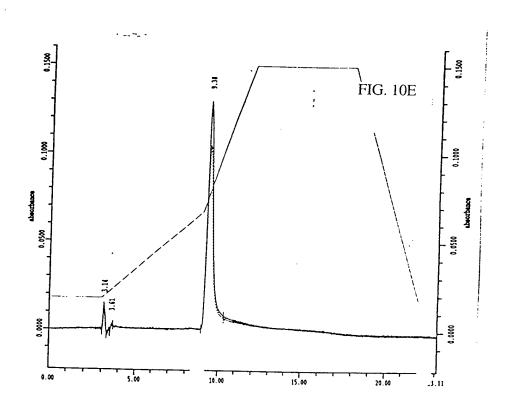
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FIG. 9









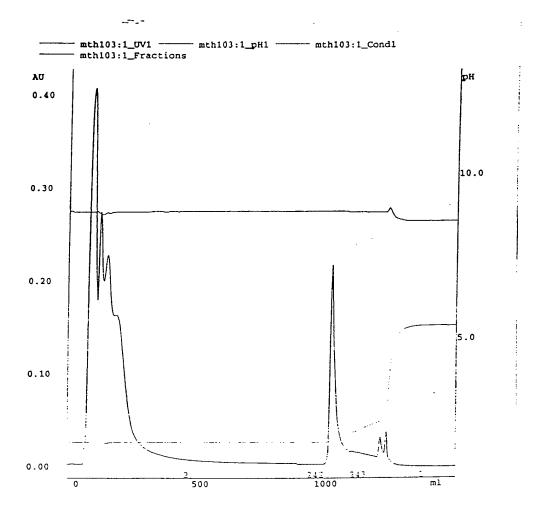
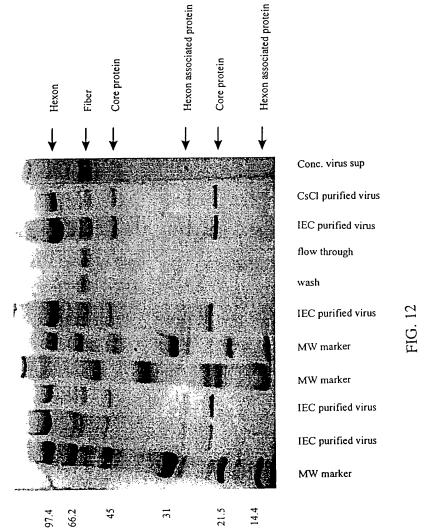


FIG. 11



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Novex MWM BSA Std

Vector sup

Conc./diafil. sup

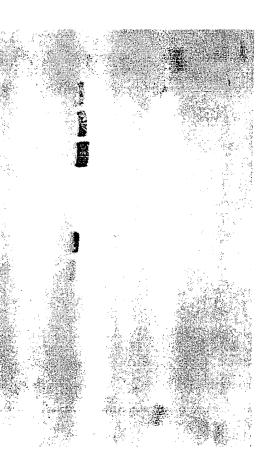
IEC purified Adp53

CsCl purified Adp53

BSA Std

Flow thru Wash

Novex MWM



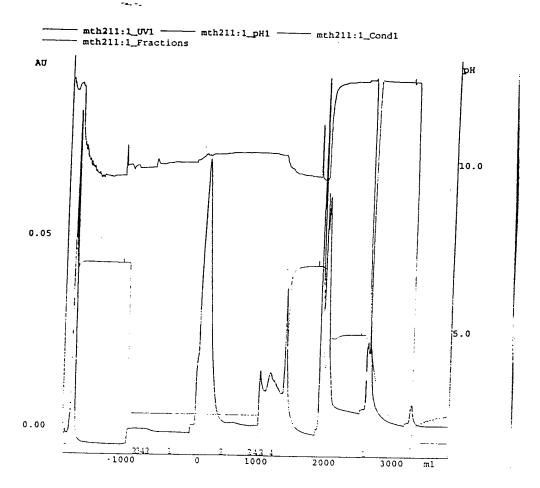
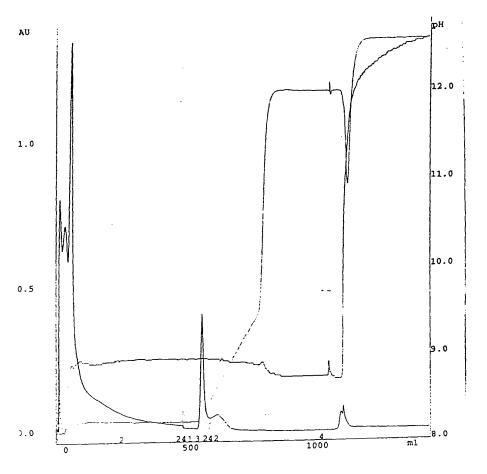
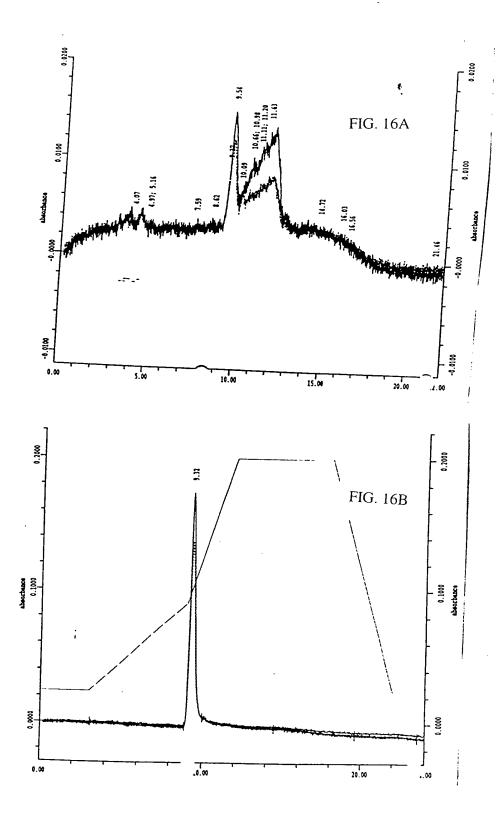


FIG. 14



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FIG. 15



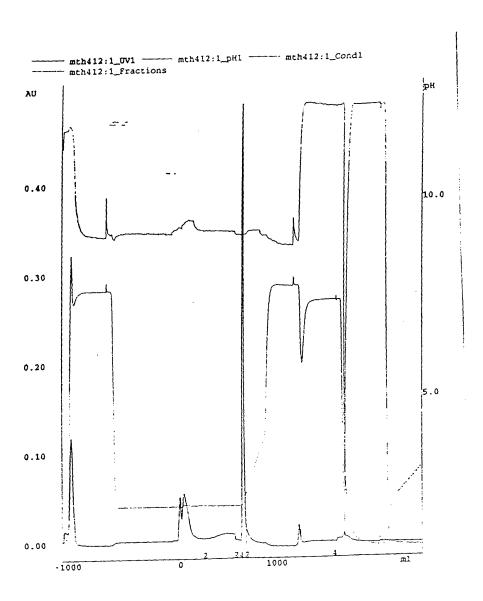


FIG. 17

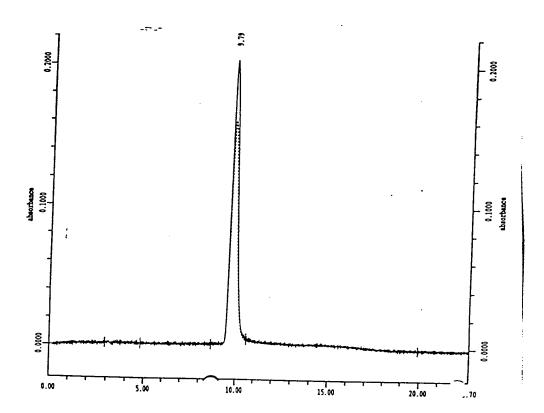
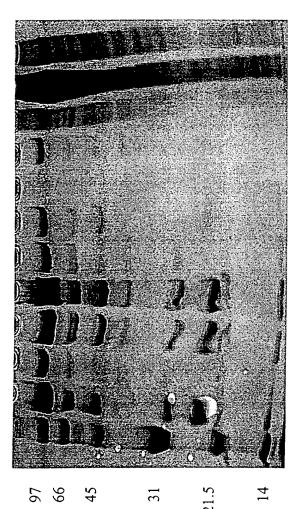


FIG. 18



Tween-20 harvest

Conc. Tween-20 harvest

Flow thru

IEC purifiedAdp53

IEC purifiedAdp53

IEC purifiedAdp53

Conc. IEC purified Adp53

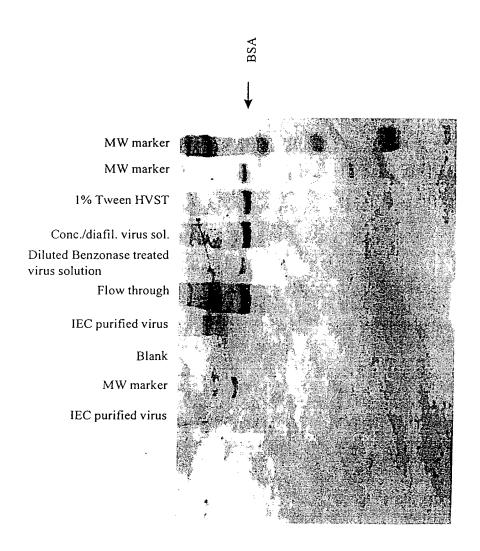
Conc. IEC purified Adp53

Defective virus

CsCl purified Adp53

MWM

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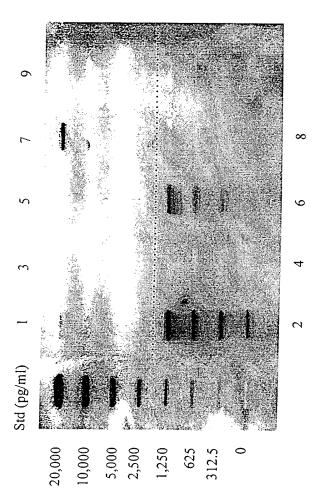
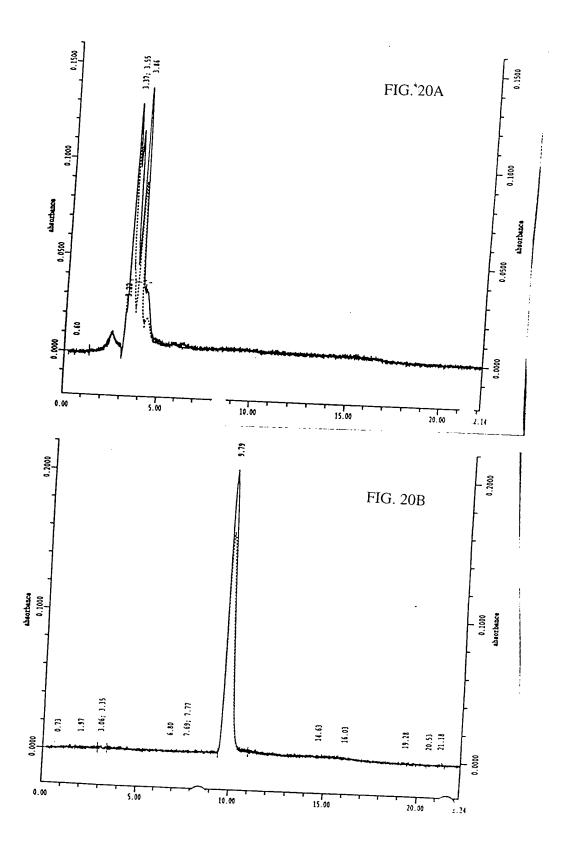
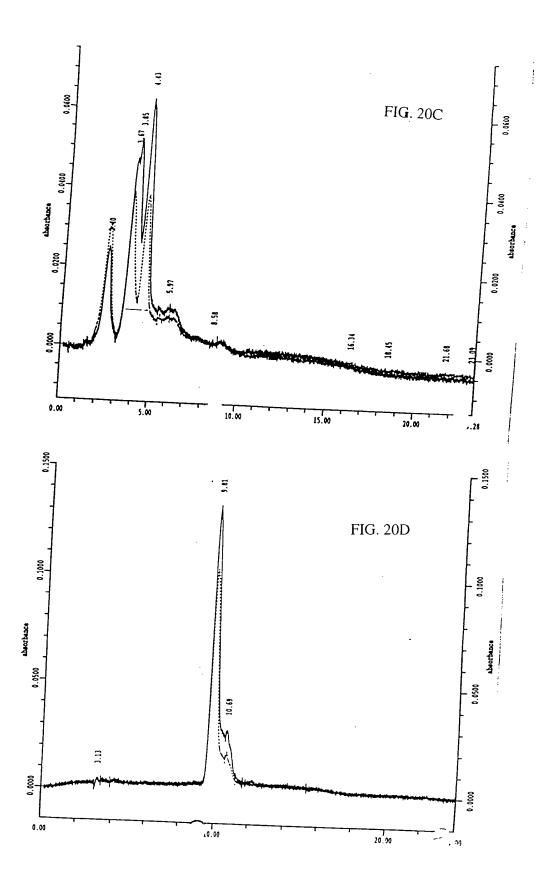
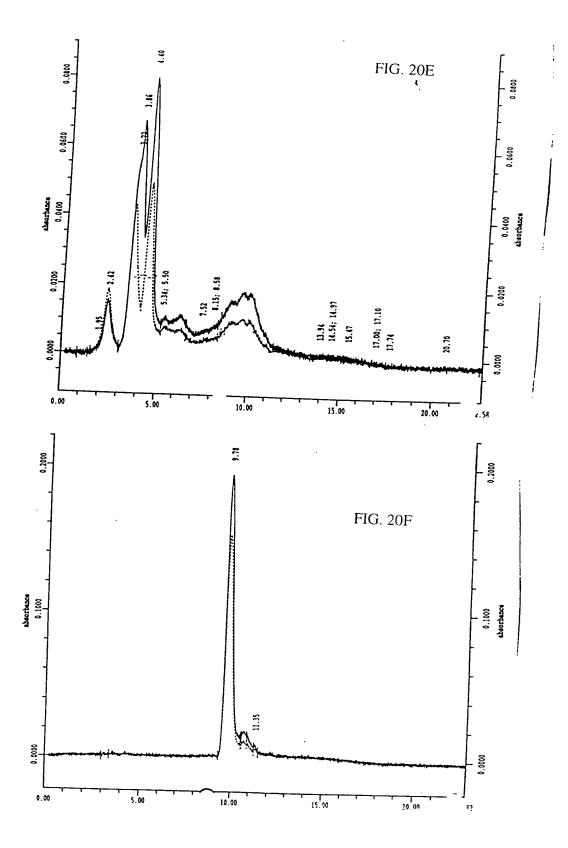


FIG. 19C







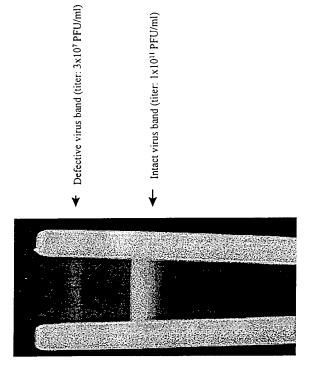
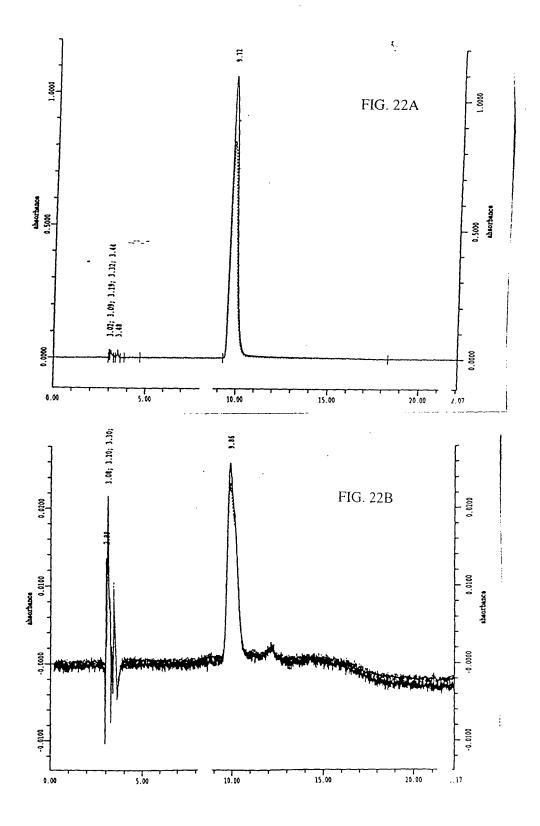


FIG. 21



	Titer (PFU/ml)	Vol. (ml)	Yield (PFU)	Recovery (%)	
Cube (low perfusion rate, keep glucose > 1g/L)				Step	Acc.
1% Tween-20 in buffer A					
Harvest					
Clarification and Filtration (0.22 um)					
Virus solution	2.6x109	1900	4.9x1012		
Conc./diaf. (10-fold conc., diaf. into 1M NaCl buffer A)					
Conc. sup	2.5x10 ¹⁰	200	5x1012	102%	
Benzonase treatment (O/N, RT, 100u/ml)					
Treated sup					
Dilute with water to conductivity = 22-25 mS/cm					
Diluted virus solution	7x10 ⁹	700	4.9x1012	98%	100%
Purified virus	1.5x10 ¹⁰	240	3.6x10 ¹²	73%	73%
conc./diaf (5-fold conc.)					
Final purified product	7x10¹º	50	3.5x10 ¹²	97%	71%

<u>.</u>